

1 21. (new) An insulation packet comprising:

2 an insulation material; and

3 a selectively permeable film completely surrounding
4 and encasing said insulation material;

5 wherein said film has a first diffusion resistance
6 with respect to water vapor diffusing through said film
7 outwardly out of said insulation packet and a second
8 diffusion resistance with respect to water vapor diffusing
9 through said film inwardly into said insulation packet, and
10 wherein said second diffusion resistance is greater than
11 said first diffusion resistance.

1 22. (new) The insulation packet according to claim 21, wherein

2 said film has both said first diffusion resistance and said
3 second diffusion resistance uniformly at all locations on
4 said film.

1 23. (new) The insulation packet according to claim 21, wherein

2 said packet has two opposite major surfaces formed by said
3 film, and wherein said film has both said first diffusion
4 resistance and said second diffusion resistance uniformly
5 at all locations on both of said two opposite major
6 surfaces.

1 24. (new) The insulation packet according to claim 21, wherein

2 said film includes a first film portion and a second film
3 portion respectively provided at two opposite major
4 surfaces of said packet, said first film portion has said

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5 first diffusion resistance, and said second film portion
6 has said second diffusion resistance.

1 25. (new) The insulation packet according to claim 21, wherein
2 said second diffusion resistance is high enough to prevent
3 water vapor from diffusing through said film inwardly into
4 said insulation packet, while said first diffusion
5 resistance is low enough to allow water vapor to diffuse
6 through said film outwardly out of said insulation packet.

1 26. (new) The insulation packet according to claim 25, wherein
2 at least a portion of said film uniformly has both said
3 first diffusion resistance and said second diffusion
4 resistance.

1 27. (new) The insulation packet according to claim 21, wherein
2 at least a portion of said film uniformly has both said
3 first diffusion resistance and said second diffusion
4 resistance.

1 28. (new) The insulation packet according to claim 21, wherein
2 said insulation material is a flossy fleece of said
3 insulation material.

1 29. (new) The insulation packet according to claim 28, wherein
2 said insulation material consists of polyphenylene sulfide.

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1 30. (new) The insulation packet according to claim 21, wherein
2 said film includes a first film portion having said first
3 diffusion resistance and a first film thickness, and a
4 second film portion having said second diffusion resistance
5 and a second film thickness, and wherein said second film
6 thickness is greater than said first film thickness.

1 31. (new) In an air vehicle including an outer skin, an inner
2 trim component that is arranged spaced from said outer skin
3 with an interspace therebetween and that bounds an interior
4 cabin therein, and an insulation arrangement including an
5 insulation packet disposed in said interspace;

6 an improvement of said insulation arrangement,

7 wherein said insulation packet comprises an insulation
8 material and a gas permeable film that completely surrounds
9 and encases said insulation material,

10 wherein said film has an inner film surface that faces
11 inwardly in said insulation packet toward said insulation
12 material and an outer film surface that is opposite said
13 inner film surface and that faces outwardly from said
14 insulation packet, and

15 wherein said film has a first diffusion resistance
16 with respect to gas diffusion through said film from said
17 inner film surface to said outer film surface outwardly out
18 of said insulation packet and a second diffusion resistance
19 with respect to gas diffusion through said film from said
20 outer film surface to said inner film surface inwardly into
21 said insulation packet, wherein said second diffusion

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22 resistance is different from said first diffusion
23 resistance.

1 32. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, wherein said second
3 diffusion resistance is greater than said first diffusion
4 resistance.

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cont'd
1 33. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, wherein said film
3 includes a first film section and a second film section
4 that are joined with each other along joined edges thereof,
5 wherein said first film section and said second film
6 section respectively have different film properties.

1 34. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 33, wherein said first film
3 section and said second film section respectively consist
4 of different film materials.

1 35. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 33, wherein said first film
3 section has a smaller thickness than said second film
4 section.

1 36. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 35, wherein said insulation
3 packet has said first and second film sections on opposite

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4 sides thereof and is oriented with said first film section
5 toward said outer skin and said second film section toward
6 said inner trim component.

1 37. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 33, wherein said insulation
3 packet has said first and second film sections on opposite
4 sides thereof and is oriented with said first film section
5 toward said outer skin and said second film section toward
6 said inner trim component, said first film section consists
7 of a first film material having a first gas diffusion
8 resistance coefficient in a first diffusion direction
9 through said first film section from said inner film
10 surface to said outer film surface thereof, said second
11 film section consists of a second film material having a
12 second gas diffusion resistance coefficient in a second
13 diffusion direction through said second film section from
14 said outer film surface to said inner film surface thereof,
15 and said second gas diffusion resistance coefficient is
16 greater than said first gas diffusion resistance
17 coefficient.

1 38. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, further comprising a
3 stringer arranged in said interspace, wherein said
4 insulation packet is arranged adjacent to said stringer so
5 as to form an air gap between said insulation packet and
6 said outer skin.

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1 39. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 38, further comprising
3 spacer members arranged between said stringer and said
4 insulation packet or between said stringer and said outer
5 skin.

1 40. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, wherein said inner trim
3 component has openings therethrough, which allow air
4 containing water vapor to pass from said interior cabin
5 through said openings into said interspace and to contact
6 a surface of said film facing toward said inner trim
7 component.

1 41. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, wherein said air vehicle
3 further includes an air conditioning device that provides
4 conditioned air, said insulation packet is spaced away from
5 said inner trim component to form an inner air space
6 therebetween, and said conditioned air is admitted to said
7 inner air space to flow therethrough.

1 42. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, wherein said film
3 consists of a synthetic plastic, said insulation material
4 consists of polyphenylene sulfide, and said insulation

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5 packet has a cross-sectional contour fitted to a contour of
6 said outer skin.

1 43. (new) The improvement of the insulation arrangement in the
2 air vehicle according to claim 31, wherein said film
3 includes a first film section on a side of said insulation
4 packet oriented toward said outer skin and a second film
5 section on a side of said insulation packet oriented toward
6 said inner trim component, said second film section is a
7 water vapor barrier that hinders water vapor from
8 permeating into said insulation packet through said second
9 film section, and said first film section is a water vapor
10 permeable film that allows water vapor to permeate out of
11 said insulation packet through said first film section.

1 44. (new) In an aircraft including an outer skin, an inner trim
2 component that is arranged spaced from said outer skin with
3 an interspace therebetween and that bounds an interior
4 cabin therein, and an insulation arrangement including an
5 insulation packet disposed in said interspace;

6 an improvement of said insulation arrangement, wherein
7 said insulation packet comprises an insulation
8 material and a gas permeable film that completely surrounds
9 and encases said insulation material,

10 said film includes a first film section on a side of
11 said insulation packet oriented toward said outer skin and
12 a second film section on a side of said insulation packet
13 oriented toward said inner trim component,

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